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(71) Applicant (for all designated States except US): **MOUNT SINAI HOSPITAL** [CA/CA]; 600 University Avenue, Toronto, Ontario M5G 1X5 (CA).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DIAMANDIS, Eleftherios, P.** [CA/CA]; 44 Gerrard Street West, Suite 1504, Toronto, Ontario M5G 2K2 (CA).

(74) Agent: **KURDYDYK, Linda**; McCarthy Tetrault, Suite 4700, P.O. Box 48, 66 Wellington Street West, Toronto Dominion Bank Tower, Toronto, Ontario M5K 1E6 (CA).

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(54) Title: METHODS FOR DETECTING PROSTATE CANCER

(57) Abstract: The invention relates to the application of kallikrein (11), free PSA, and total PSA in the detection of prostate cancer. These markers may be used for the diagnosis, monitoring, staging, progression, prevention, treatment, and prognosis of prostate cancer, and as indicators before surgery or after relapse. A particular aspect of the invention provides a method for distinguishing prostate cancer from benign prostatic hyperplasia (BPH).

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INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N33/574 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01N C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, BIOSIS, MEDLINE, EMBASE, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NAKAMURA T ET AL: "ALTERNATIVE SPLICING ISOFORMS OF HIPPOSTASIN (PRSS20/KLKII) IN PROSTATE CANCER CELL LINES" PROSTATE, WILEY-LISS, NEW YORK, NY, US, vol. 49, no. 1, 15 September 2001 (2001-09-15), pages 72-78, XP001105309 ISSN: 0270-4137 the whole document, see especially p. 72	10-16, 39, 48
X, P	WO 02 097438 A (DIAMANDIS ELEFTHERIOS ;MOUNT SINAI HOSPITAL (CA)) 5 December 2002 (2002-12-05) the whole document, especially p. 1-4 -/--	10-16, 39, 48

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

STEINHEIMER, K

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NAKAMURA TERUKAZU ET AL: "Human kallikrein 11; a new biomarker of prostate cancer" JOURNAL OF UROLOGY, vol. 167, no. 4 Supplement, April 2002 (2002-04), page 286 XP009027318 Annual Meeting of the American Urology Association, Inc.; Orlando, Florida, USA; May 25-30, 2002 ISSN: 0022-5347 abstract	10-16, 39, 48
Y	DIAMANDIS ELEFTHERIOS P ET AL: "Human kallikrein 11: A new biomarker of prostate and ovarian carcinoma" CANCER RESEARCH, vol. 62, no. 1, 1 January 2002 (2002-01-01), pages 295-300, XP002216344 ISSN: 0008-5472	1-9, 17-49
X	the whole document, see especially p. 289-299	10-16
X	YOUSSEF GEORGE M ET AL: "Expanded human tissue kallikrein family: A novel panel of cancer biomarkers" TUMOR BIOLOGY, vol. 23, no. 3, May 2002 (2002-05), pages 185-192, XP009027321 ISSN: 1010-4283	10-16
Y	the whole document, see especially p. 189	1-9, 17-49
Y	DIAMANDIS E P ET AL: "HUMAN TISSUE KALLIKREINS: A FAMILY OF NEW CANCER BIOMARKERS" CLINICAL CHEMISTRY, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY. WINSTON, US, vol. 48, no. 8, August 2002 (2002-08), pages 1198-1205, XP001121702 ISSN: 0009-9147	1-9, 17-49
X	the whole document, see especially p. 1203	10-16

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MAGKLARA ANGELIKI ET AL: "The combination of human glandular kallikrein and free prostate-specific antigen (PSA) enhances discrimination between prostate cancer and benign prostatic hyperplasia in patients with moderately increased total PSA"</p> <p>CLINICAL CHEMISTRY, vol. 45, no. 11, November 1999 (1999-11), pages 1960-1966, XP002273448 ISSN: 0009-9147 cited in the application the whole document, especially p. 1960</p>	<p>1-9, 17-49</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02097438	A	05-12-2002	WO 02097438 A1	05-12-2002
			CA 2448355 A1	05-12-2002
			EP 1390756 A1	25-02-2004
